

5	6	7	8
16	1	2	9
15	4	3	10
14	13	12	11

FIG.1a

A	5	6	7	8	B
	16	1	2	9	
C	15	4	3	10	D
	14	13	12	11	

FIG.1b

1	2
3	4

FIG.2a

INPUT	OUTPUT
0.0-0.5	0
0.5-1.5	1
1.5-2.5	2
2.5-3.5	3
3.5-4.0	4

FIG.2b

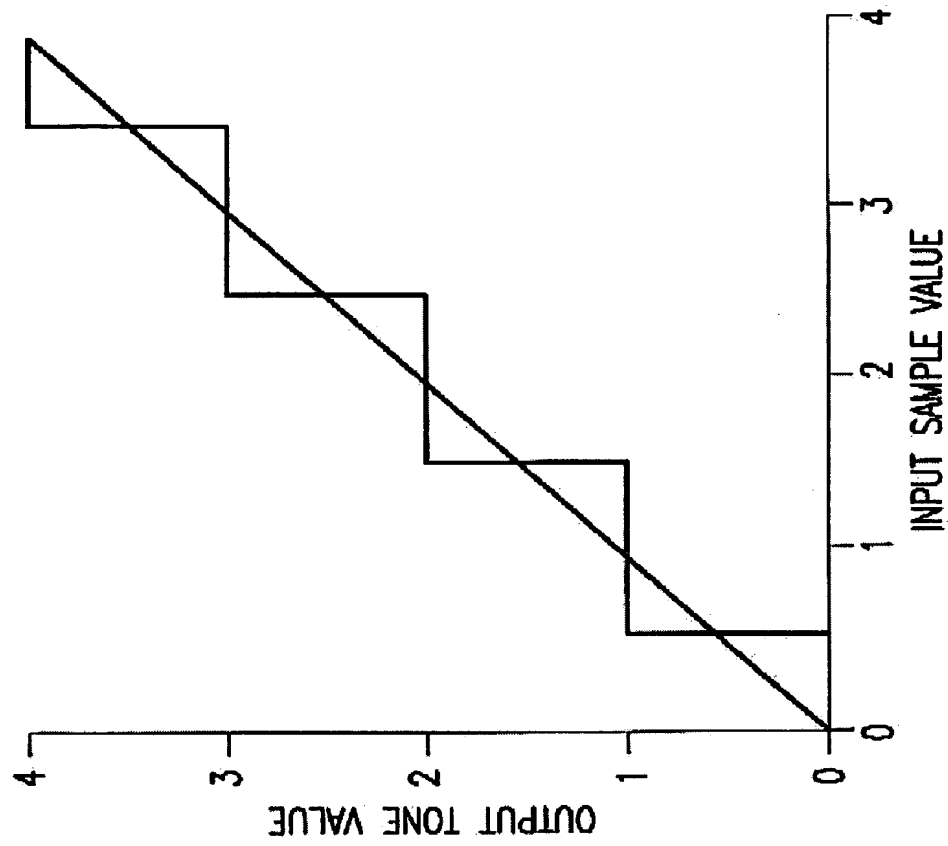


FIG.2c

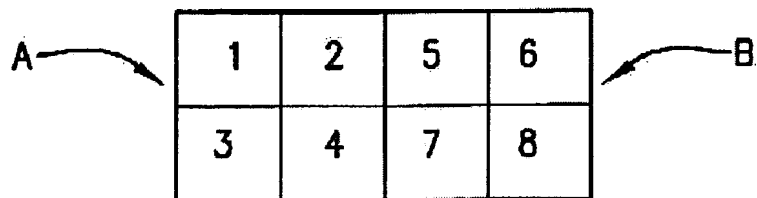


FIG.2d

INPUT	OUTPUT
0.0-0.5	0
0.5-1.5	1
1.5-2.5	2
2.5-3.5	3
3.5-4.5	4
4.5-5.5	4
5.5-6.5	4
6.5-7.5	4
7.5-8.0	4

FIG.2e

INPUT	OUTPUT
0.0-0.5	0
0.5-1.5	0
1.5-2.5	0
2.5-3.5	0
3.5-4.5	0
4.5-5.5	1
5.5-6.5	2
6.5-7.5	3
7.5-8.0	4

FIG.2f

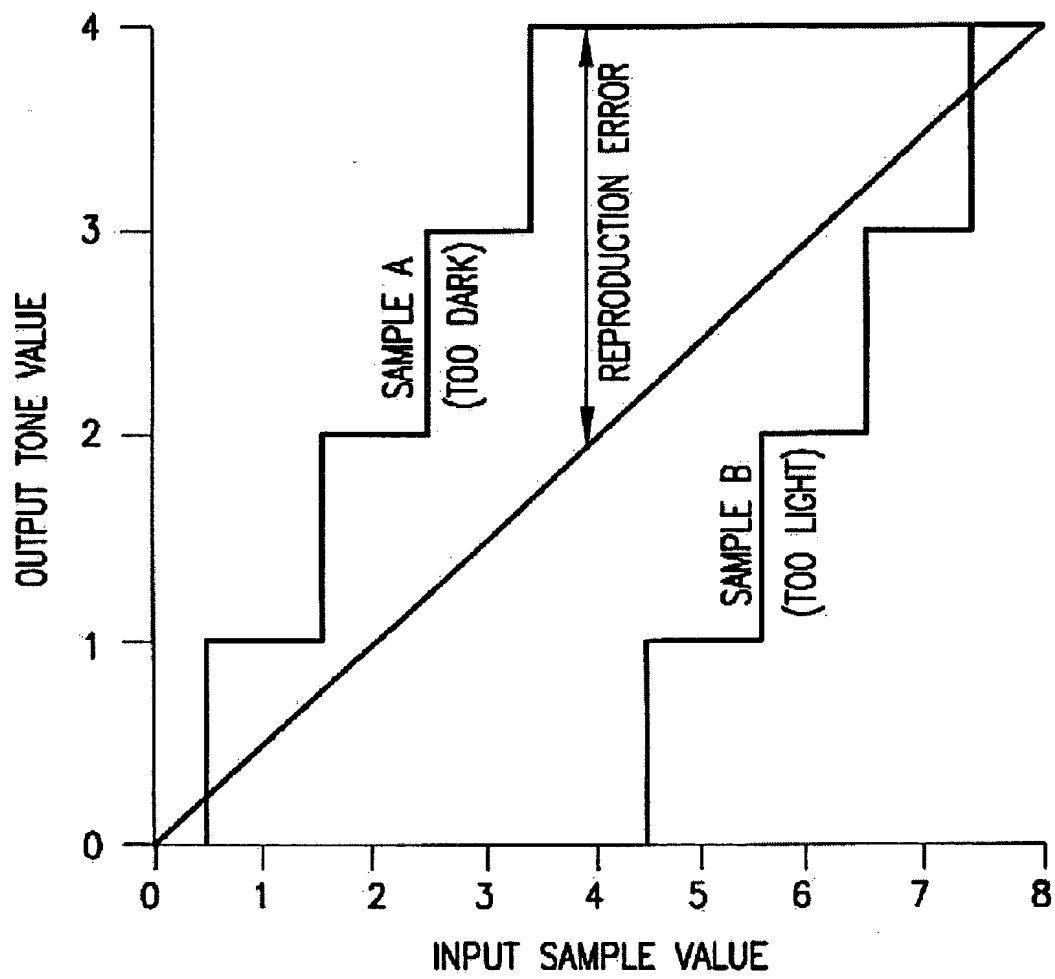


FIG.2g

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PROBLEMATIC HALFTONE PATTERN

A	13	7	8	14	20	26	25	19	B
	5	1	2	6	28	32	31	27	
	9	3	4	10	24	30	29	23	
	15	11	12	16	18	22	21	17	
C	20	26	25	19	13	7	8	14	D
	28	32	31	27	5	1	2	6	
	24	30	29	23	9	3	4	10	
	18	22	21	17	15	11	12	16	

FIG.3a

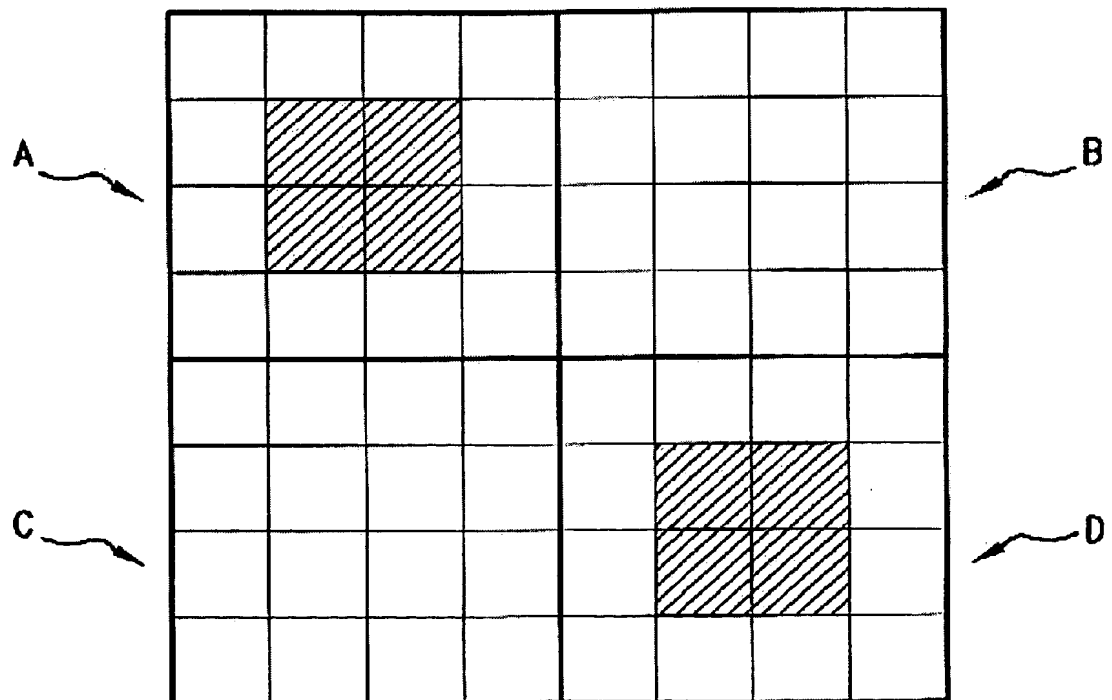


FIG.3b

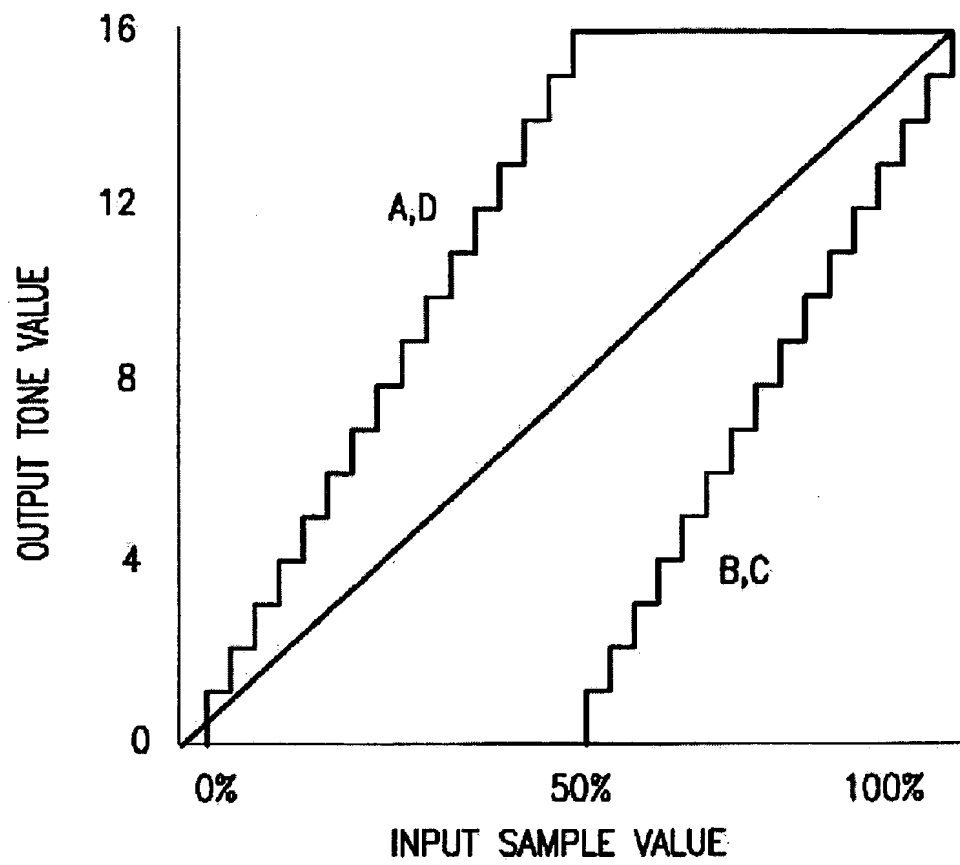


FIG.3c

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DIRECT 1 TO 1 PATTERN

A	13	7	8	14	13	7	8	14	B
	5	1	2	6	5	1	2	6	
	9	3	4	10	9	3	4	10	
	15	11	12	16	15	11	12	16	
C	13	7	8	14	13	7	8	14	D
	5	1	2	6	5	1	2	6	
	9	3	4	10	9	3	4	10	
	15	11	12	16	15	11	12	16	

FIG.4a

A									B
C									D

FIG.4b

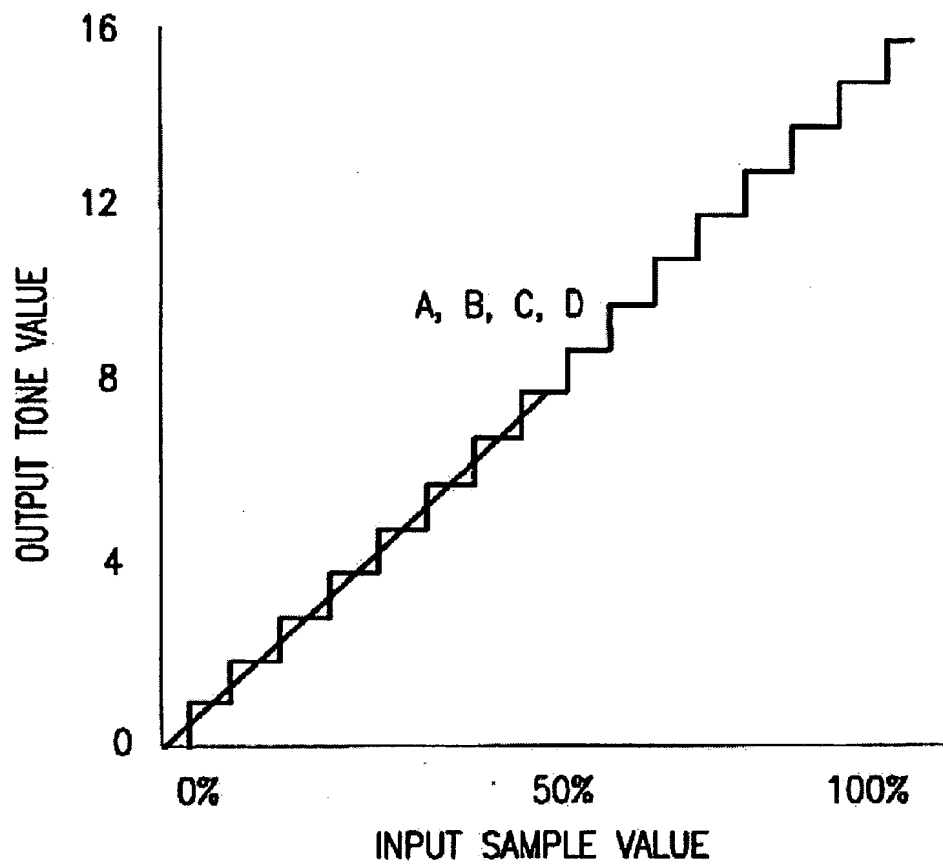


FIG.4c



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REDUCED FREQUENCY 1 TO 1 PATTERN

	13	10	7	4	4	7	10	13	
A	16	14	3	1	1	3	14	16	B
	15	12	5	2	2	5	12	15	
	11	9	8	6	6	8	9	11	
	4	7	10	13	13	10	7	4	
C	1	3	14	16	16	14	3	1	D
	2	5	12	15	15	12	5	2	
	6	8	9	11	11	9	8	6	

FIG.5a

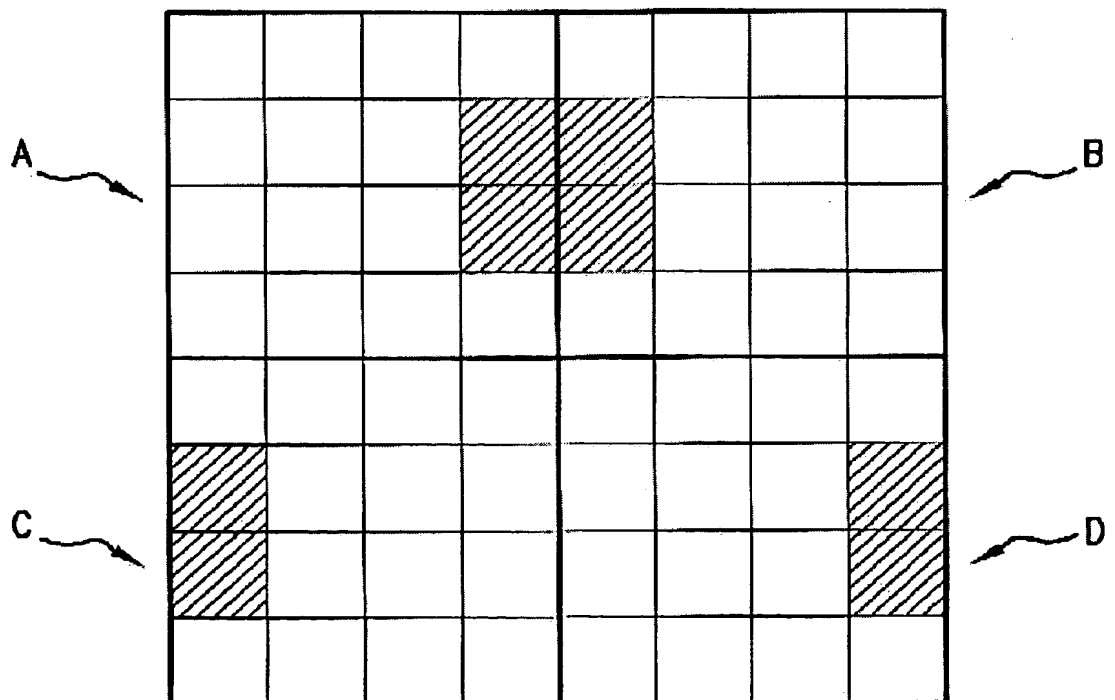


FIG.5b

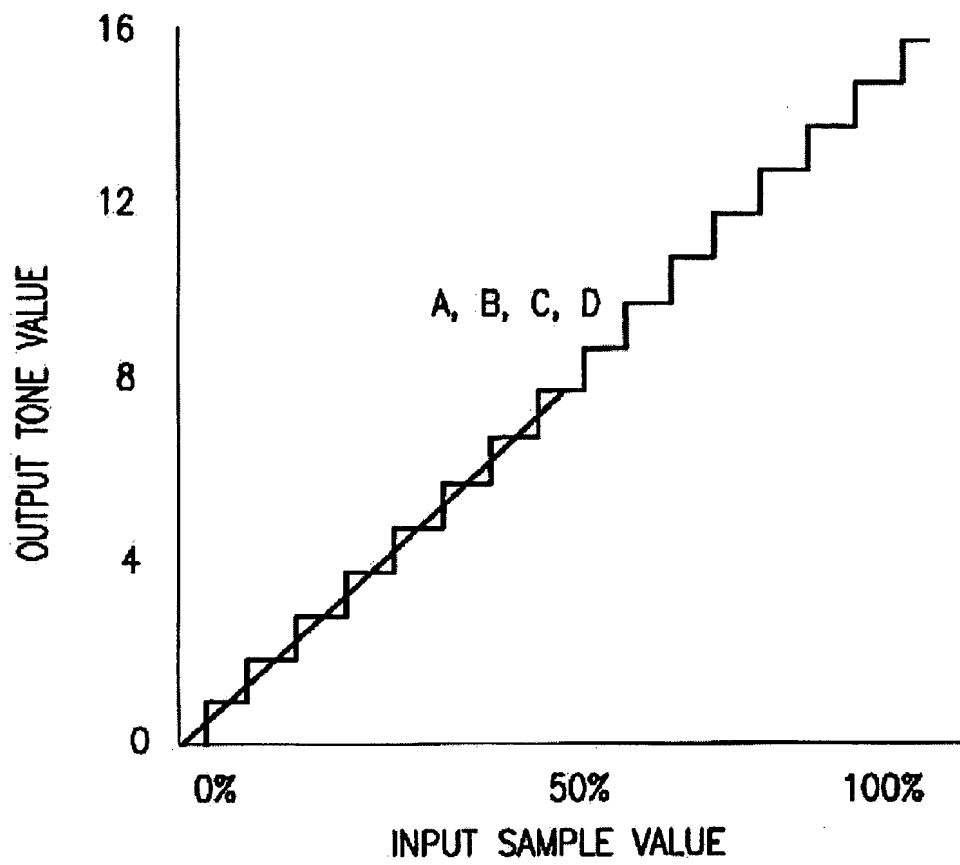


FIG.5c

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DISPERSED 1 TO 1 PATTERN

	25	19	13	7	8	14	20	26	
A	31	27	5	1	2	6	28	32	B
	29	23	9	3	4	10	24	30	
	21	17	15	11	12	16	18	22	
	8	14	20	26	25	19	13	7	
C	2	6	28	32	31	27	5	1	D
	4	10	24	30	29	23	9	3	
	12	16	18	22	21	17	15	11	

FIG.6a

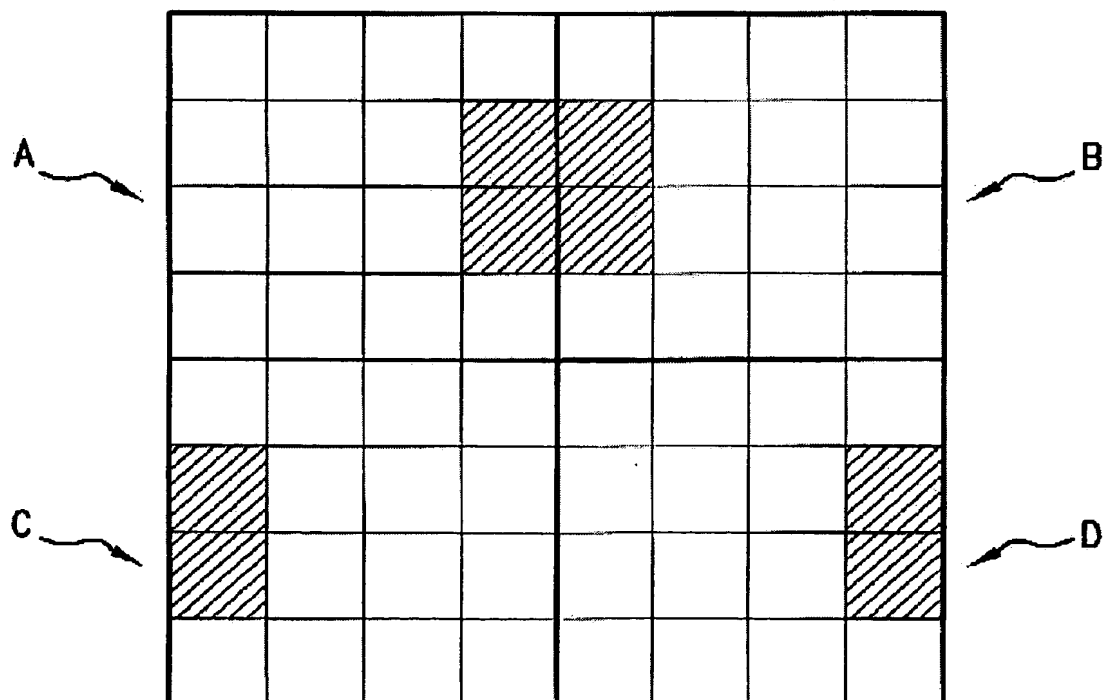


FIG.6b

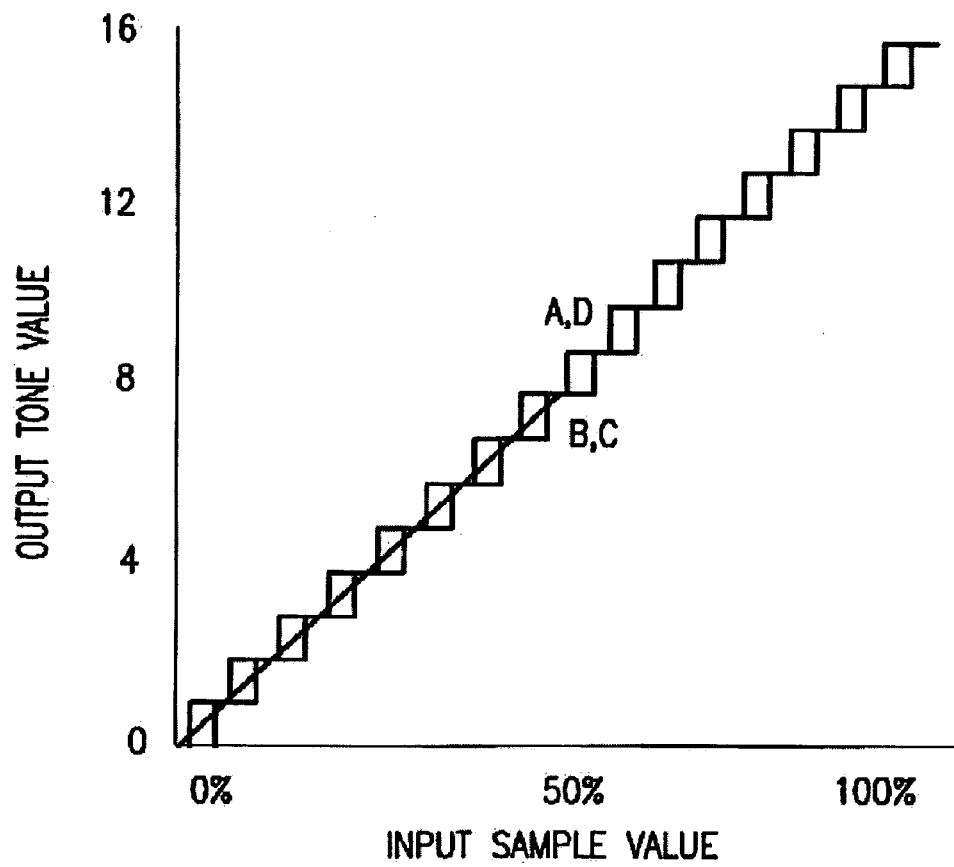
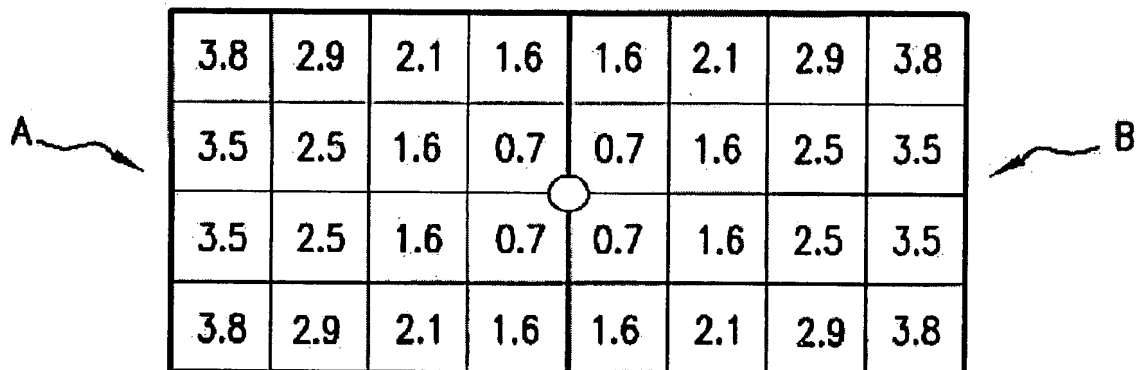


FIG.6c

# SYSTEMATIC PATTERN GENERATION

## — SPOT VALUES



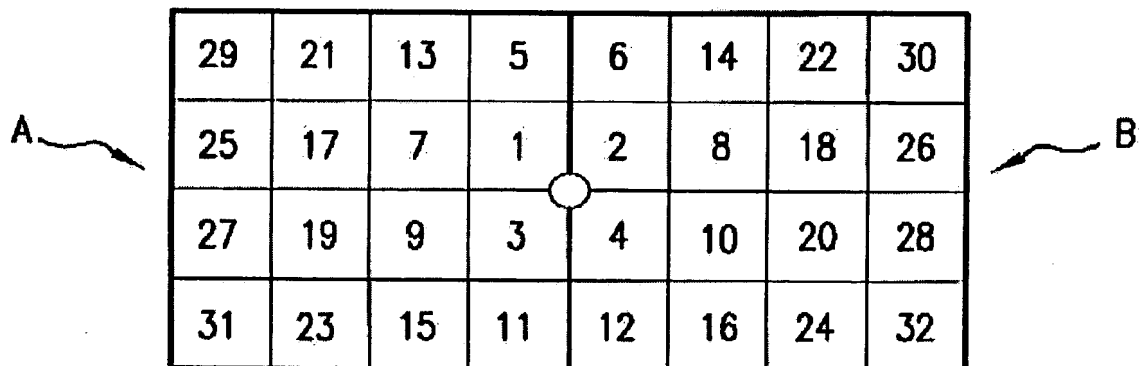
A 4x8 grid of numerical values. A small circle is located at the intersection of the second and third rows and the fourth and fifth columns. An arrow labeled 'A' points to the left side of the grid, and an arrow labeled 'B' points to the right side of the grid.

3.8	2.9	2.1	1.6	1.6	2.1	2.9	3.8
3.5	2.5	1.6	0.7	0.7	1.6	2.5	3.5
3.5	2.5	1.6	0.7	0.7	1.6	2.5	3.5
3.8	2.9	2.1	1.6	1.6	2.1	2.9	3.8

$$\text{SPOT} (x, y) = \text{sqrt} (x * x + y * y)$$

FIG.7a

## — ORDERED VALUES



A 4x8 grid of numerical values. A small circle is located at the intersection of the second and third rows and the fourth and fifth columns. An arrow labeled 'A' points to the left side of the grid, and an arrow labeled 'B' points to the right side of the grid.

29	21	13	5	6	14	22	30
25	17	7	1	2	8	18	26
27	19	9	3	4	10	20	28
31	23	15	11	12	16	24	32

FIG.7b

— ADD BOTTOM HALF

29	21	13	5	6	14	22	30
25	17	7	1	2	8	18	26
27	19	9	3	4	10	20	28
31	23	15	11	12	16	24	32
6	14	22	30	29	21	13	5
2	8	18	26	25	17	7	1
4	10	20	28	27	19	9	3
12	16	24	32	31	23	15	11

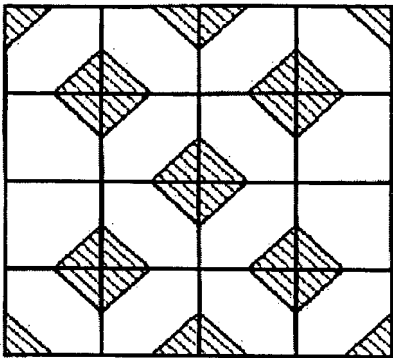
A

B

C

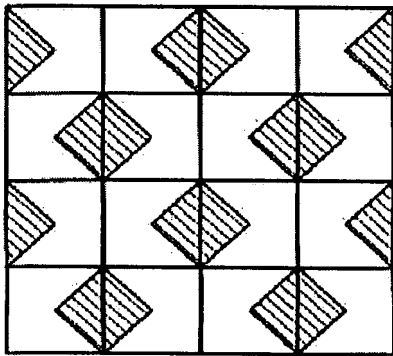
D

FIG.7c



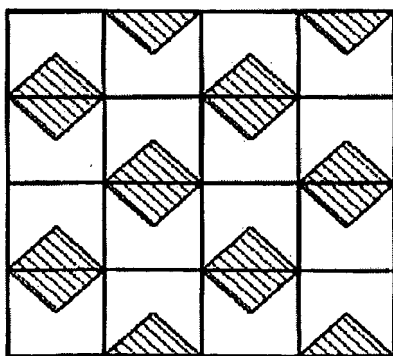
DIAGONAL (45 DEGREES)  
TWO-WAY HORIZONTAL

FIG. 8a



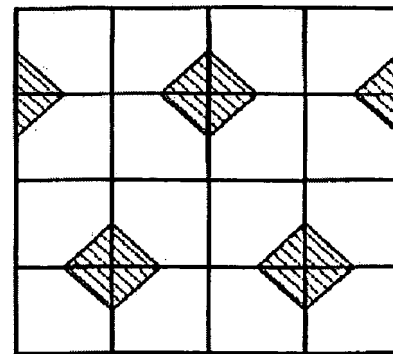
DIAGONAL (45 DEGREES)  
TWO-WAY VERTICAL

FIG. 8b



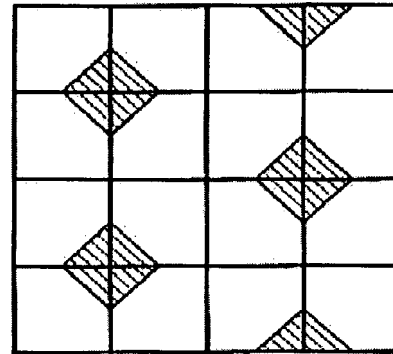
DIAGONAL (45 DEGREES)  
FOUR-WAY

FIG. 8c



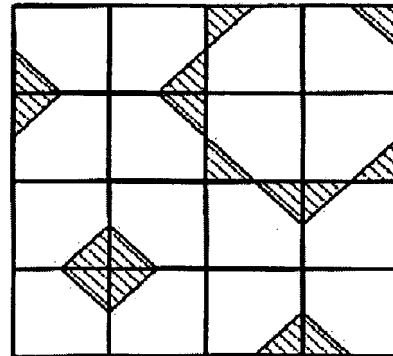
HEXAGONAL-VERTICAL

FIG. 8d



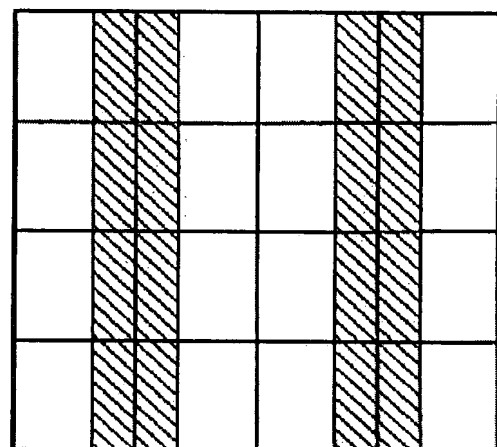
HEXAGONAL-HORIZONTAL

FIG. 8e



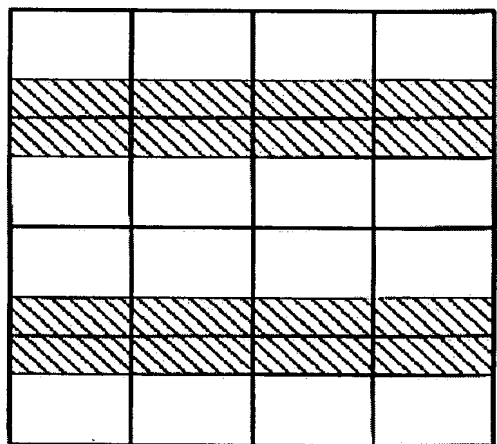
CIRCLES

FIG. 8f



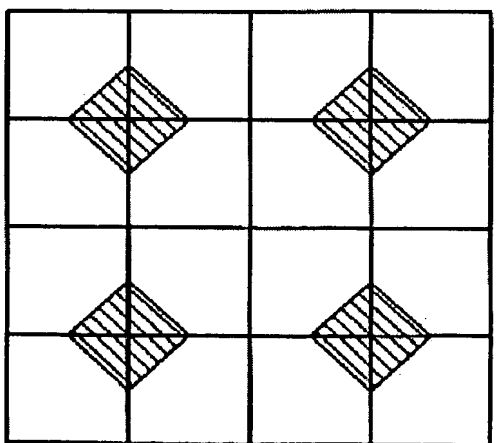
HORIZONTAL LINE

FIG.8i



VERTICAL LINE

FIG.8h



SQUARE (NOT ROTATED)

FIG.8g